- 25. (New) The method of treating a surface deficiency of Claim 20, wherein said surfactant deficiency is respiratory distress syndrome.
- 26. (New) The method of treating a surface deficiency of Claim 23, wherein said surfactant deficiency is respiratory distress syndrome.
- 27. (New) The method of treating a surface deficiency of Claim 24, wherein said surfactant deficiency is respiratory distress syndrome.

REMARKS

Claims 1-13 and 17-27 are active in the present application. Claims 1-13 were amended to remove multiple dependencies. Claims 14-16 were canceled. New Claims 17-27 replace canceled Claims 14-17. Support for new claims is found in the original claims and in the specification on page 1, lines 5-12 and the examples. No new matter is believed to have been added. An action on the merits and allowance of claims is solicited.

Respectfully submitted, OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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IN THE CLAIMS

--1. (Amended) <u>A SP-C analog</u> [SP-C analogues] having general formula (I), according to one-letter amino acid code:

$$F_eG_fIPZZPVHLKR(X_aB)(X_bB)_n(X_cB)_mX_dGALLMGL$$
 (I)

wherein:

X is an amino acid selected from the group consisting of I, L, Nle (norleucine);

B is an amino acid selected from the group consisting of K, W, F, Y, Ornithine;

Z is S and can be optionally linked via ester or thio-ester bonds with acyl group containing 12-22 carbon atoms;

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a is an integer from 1 to 19;
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b is an integer from 1 to 19;

c is an integer from 1 to 21;

d is an integer from 0 to 20;

e is 0 or 1;

f is 0 or 1;

n is 0 or 1;

m is 0 or 1,

with the following conditions:

n + m > 0;

 $f \ge e$;

 $(X_aB)(X_bB)_n(X_cB)_mX_d$ is a sequence having a maximum of 22 amino acids[, preferably from 10 to 22 amino acids].

- 7. (Amended) A SP-C analog [SP-C analogues] according to [claims 1-6] Claim 1, in which Ser residues are acylated [preferably with palmitoyl groups].
- 8. (Amended) <u>A SP-C analog</u> [SP-C analogues] according to [claims 1-7] <u>Claim 1</u>, in which B is Lysine or Phenylalanine and X is Leucine, Isoleucine or Norleucine.
- 10. (Amended) A synthetic surfactant comprising at least one SP-C analogue [of formula (I)] as claimed in Claim 1 in admixture with lipids and phospholipids.
- 12. (Amended) A synthetic surfactant according to [claims 10-11] <u>Claim 10</u>, further comprising SP-B or an active derivative thereof or a polymyxin.
- 13. (Amended) A synthetic surfactant according to [claims 10-12] <u>Claim 10</u>, in form of solution, dispersion, suspension, dry powder.--

Claims 14-16 (Canceled).

Claims 17-27 (New).

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IN THE SPECIFICATION

Page 5, lines 23-25, please replace the paragraph with the following paragraph:

--As follows, according to a first aspect, the invention provides SP-C analogues having the following general formula (I) <u>SEQ ID NO:1</u>, using the one-letter amino acid code:--

Page 6, lines 21-26, please replace the paragraph with the following paragraph:

- -- Preferred peptides of Formula (I) have the following sequences:
- (Ia) FGIPSSPVHLKRX₄BX₄BX₄BXGALLMGL (SEQ ID NO:2)
- (Ib) FGIPSSPVHLKRX5BX5BX4GALLMGL (SEQ ID NO:3)
- (Ic) FGIPSSPVHLKRX₄BX₁₁GALLMGL (SEQ ID NO:4)
- (Id) FGIPSSPVHLKRX₈BX₇GALLMGL (SEQ ID NO:5)
- (Ie) FGIPSSPVHLKRX11BX4GALLMGL (SEO ID NO:6)--

Page 7, lines 3-8, please replace the paragraph with the following paragraph:

--FGIPSSPVHLKRLLILKLLLKILLLKLGALLMGL [SP-C (LKS)] (SEQ ID

NO:7)

FGIPSSPVHLKRLLILLKLLLIKLLILGALLMGL [SP-C (LKS)₁] (SEQ ID NO:8)
FGIPSSPVHLKRLLILKLLLLLILLILGALLMGL [SP-C (LKS)₂] (SEQ ID NO:9)

FGIPSSPVHLKRLLILLLLLLKLILLILGALLMGL [SP-C (LKS)₃] (SEQ ID NO:10)
FGIPSSPVHLKRLLILLLLLLLLKLLILGALLMGL [SP-C (LKS)₄] (SEQ ID NO:11)
FGIPSSPVHLKRLLILFILLLFILLLFILLLFLGALLMGL [SP-C (LFS)] (SEQ ID NO:12)-

Page 21, lines 27, to page 27, line 6, please replace the paragraph with the following paragraph:

--The sequence of human SP-C (SEQ ID NO: 13) is taken from Johansson, J., et al. (1988) FEBS Lett. 232, 61-64 and that of SP-C(Leu) (SEQ ID NO: 14) from Nilsson, G., et al. (1999) Eur. J. Biochem, 255, 116-124). SP-C(LKS) (SEQ ID NO: 7) is based on the primary structure of SP-C but all Val residues at the positions 16-28 with the exception of position 17 are replaced with Leu residues, Lys residues have been introduced at positions 17,22, and 27, and the palmitoylated Cys at positions 5 and 6 are replaced with Ser.--

IN THE CLAIMS

--1. (Twice Amended) A SP-C analog having general formula (I) (SEQ ID NO:1), according to one-letter amino acid code:

$$F_eG_fIPZZPVHLKR(X_aB)(X_bB)_n(X_cB)_mX_dGALLMGL$$
 (I)

wherein:

X is an amino acid selected from the group consisting of I, L, Nle (norleucine); B is an amino acid selected from the group consisting of K, W, F, Y, Ornithine; Z is S and can be optionally linked via ester or thio-ester bonds with acyl group containing 12-22 carbon atoms;

```
a is an integer from 1 to 19;
b is an integer from 1 to 19;
c is an integer from 1 to 21;
d is an integer from 0 to 20;
e is 0 or 1;
f is 0 or 1;
n is 0 or 1;
m is 0 or 1,
```

with the following conditions:

```
n + m > 0;
f \ge e;
```

 $(X_aB)(X_bB)_n(X_cB)_mX_d$ is a sequence having a maximum of 22 amino acids.

- 2. (Amended) SP-C analogues according to claim 1, having formula (Ia) (SEQ ID NO:2)
 - (Ia) FGIPSSPVHLKRX₄BX₄BX₄BXGALLMGL
- 3. (Amended) SP-C analogues according to claim 1, having formula (Ib) (SEQ ID NO:3)
 - (Ib) FGIPSSPVHLKRX5BX5BX4GALLMGL
- 4. (Amended) SP-C analogues according to claim 1, having formula (Ic) (SEQ ID NO:4)

- (Ic) FGIPSSPVHLKRX₄BX₁₁GALLMGL
- 5. (Amended) SP-C analogues according to claim 1, having formula (Id) (SEQ ID NO:5)
 - (Id) FGIPSSPVHLKRX₈BX₇GALLMGL
- 6. (Amended) SP-C analogues according to claim 1, having formula (Ie) (SEQ ID NO:6)
 - (Ie) FGIPSSPVHLKRX₁₁BX₄GALLMGL
- 9. (Amended) SP-C analogues according to claim 8, selected from the group consisting of:
- SP-C (LKS) FGIPSSPVHLKRLLILKLLLKILLLKLGALLMGL (SEQ ID NO:7)
- SP-C (LKS), FGIPSSPVHLKRLLILLKLLLIKLLILGALLMGL (SEQ ID NO:8)
- SP-C (LKS), FGIPSSPVHLKRLLILKLLLLLILLILGALLMGL (SEQ ID NO:9)
- SP-C (LKS), FGIPSSPVHLKRLLILLLLLLKLILLILGALLMGL (SEQ ID NO:10)
- SP-C (LKS)₄ FGIPSSPVHLKRLLILLLLLLLLLKLLILGALLMGL (SEQ ID NO:11)
- SP-C (LFS) FGIPSSPVHLKRLLILFLLLLFILLLFLGALLMGL (SEO ID NO:12)--